

What is claimed is:

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- 5 and
1. A polishing apparatus comprising:
a top ring for holding a workpiece to be polished;
- a polishing table movable relatively to said top ring, said polishing table having a polishing surface for polishing the workpiece held by said top ring;
- 10 wherein at least one of said top ring and said polishing table reciprocates linearly in a first direction.
2. A polishing apparatus according to claim 1, further comprising a polishing liquid supply device for supplying a polishing liquid to said polishing surface.
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3. A polishing apparatus according to claim 1, further comprising a dresser which reciprocates linearly in a second direction for dressing said polishing surface.
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4. A polishing apparatus according to claim 3, wherein a plurality of said dressers are provided in combination with said top ring.
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5. A polishing apparatus according to claim 1, wherein said top ring reciprocates linearly in a third direction intersecting said first direction.

6. A polishing apparatus according to claim 1,
wherein said top ring is rotatable about its axis.

7. A polishing apparatus according to claim 1,
5 wherein said polishing surface has a groove formed therein for
discharging a waste material from said polishing surface.

8. A polishing apparatus according to claim 1,
wherein said polishing table has a plurality of polishing
10 surfaces having different levels of coarseness.

9. A polishing apparatus according to claim 1,
further comprising a linear motor for reciprocating said at
least one of said top ring and said polishing table linearly
15 in said first direction.

10. A polishing apparatus according to claim 1,
wherein said polishing table is arranged to reciprocate
linearly in said first direction, and supported by a linear
20 guide under a fluid pressure.